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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/691,494	10/18/2000	James B. Kimble	33588US1	2070
37814 75	590 12/11/2003		EXAM	INER
CHEVRON PHILLIPS CHEMICAL COMPANY			GRIFFIN, WALTER DEAN	
PLANO, TX	E PARKWAY, SUITE 330 75024-6616		ART UNIT	PAPER NUMBER
ŕ			1764	
			DATE MAILED: 12/11/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

e was -	Application No.	Applicant(s)				
4 Care 20		KIMBLE ET AL.				
Office Action Summary	09/691,494					
Onice Action Summary	Examiner	Art Unit				
TI MAU DIO DATE estima ammunication opp	Walter D. Griffin	1764				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply if NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a reply be tir y within the statutory minimum of thirty (30) day vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. I the mailing date of this communication. ID (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on <u>06 October 2003</u> .						
2a)⊠ This action is FINAL . 2b)☐ This	action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 29-54 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 29-32,37,38,42-44,48-50 and 54 is/are rejected. 7) Claim(s) 33-36,39-41,45-47 and 51-53 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicated and accomplicated and accomplicated and accomplicated to the Replacement drawing sheet(s) including the correct of the second accomplication and the second accomplication is objected to by the Example 11).	epted or b) objected to by the drawing(s) be held in abeyance. Setion is required if the drawing(s) is ob-	ee 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. §§ 119 and 120						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list 13) Acknowledgment is made of a claim for domest since a specific reference was included in the first 37 CFR 1.78. a) The translation of the foreign language processing the process of the priority document is made of a claim for domest reference was included in the first sentence of the priority document is made of a claim for domest reference was included in the first sentence of the priority document is made of a claim for domest reference was included in the first sentence of the priority document is made of a claim for domest reference was included in the first sentence of the priority document is made of a claim for domest reference was included in the first sentence of the priority document is made of a claim for domest reference was included in the first sentence of the priority document is made of a claim for domest reference was included in the first sentence of the priority document is made of a claim for domest reference was included in the first sentence of the priority document is made of a claim for domest reference was included in the first sentence of the priority document is made of a claim for document is made of a clai	ts have been received. Its have been received in Application of the comments have been received in Application (PCT Rule 17.2(a)). It of the certified copies not receive in priority under 35 U.S.C. § 119 rest sentence of the specification covisional application has been recitic priority under 35 U.S.C. §§ 12	tion No red in this National Stage red. (e) (to a provisional application) or in an Application Data Sheet. ceived. 0 and/or 121 since a specific				
Attachment(s)		1000 ALL 2 (17 V 17 17)				
1) Notice of References Cited (PTC-892) 2) Notice of Draftsperson's Patent Drawing Review (PTC-948) 3) Information Disclosure Statement(s) (PTC-1449) Paper No(s)	5) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)				

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DETAILED ACTION

Response to Amendment

The claim objection, the claim rejections under 35 USC 112, first paragraph, and the claim rejections under 35 USC 102 and 103 in view of Chu, Drake ('243), Drake ('865), Drake ('975), Drake ('089), Yao, or Drake ('034) have been withdrawn in view of the amendment and remarks filed on September 22, 2003 including the rule 1.131 declaration. The obviousness-type double patenting rejections have also been withdrawn in view of the terminal disclaimers filed on October 22, 2003.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 29 is rejected under 35 USC 102(b) as being anticipated by Kaeding (US 4,078,009).

The Kaeding reference discloses a process for converting a hydrocarbon into aromatics and olefins. The process comprises contacting the hydrocarbon with a composition that contains a zeolite such as ZSM-5, a binder (e.g., silica), and a boron promoter. Representative boron

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compounds include trimethylborate and boron oxide. The amount of boron present can be as high as about 20 weight percent or more depending on the amount and type of binder present. The relative proportion of zeolite and binder may vary widely with the amount of zeolite ranging from about 1 to 99 percent by weight. The catalyst is prepared by combining the zeolite, binder, and boron compound. The catalyst can be activated with steam. See col. 2, line 7 through col. 12, line 3 and the examples.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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Claims 30-32, 37, 38, 42-44, 48-50, and 54 are rejected under 35 USC 103(a) as being unpatentable over Kaeding (US 4,078,009).

The Kaeding reference discloses a process for converting a hydrocarbon into aromatics and olefins. The process comprises contacting the hydrocarbon with a composition that contains a zeolite such as ZSM-5, a binder (e.g., silica), and a boron promoter. Representative boron compounds include trimethylborate and boron oxide. The amount of boron present can be as high as about 20 weight percent or more depending on the amount and type of binder present. The relative proportion of zeolite and binder may vary widely with the amount of zeolite ranging from about 1 to 99 percent by weight. The catalyst is prepared by combining the zeolite, binder, and boron compound. The catalyst can be activated with steam. See col. 2, line 7 through col. 12, line 3 and the examples.

The Kaeding reference does not disclose the ratios of the components and does not disclose all the feeds.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to have utilized the claimed ratios of the components in the catalyst because one would utilize known catalytic components in amounts that result in an effective catalyst.

It also would have been obvious to one having ordinary skill in the art at the time the invention was made to have utilized the claimed feeds in the Kaeding process because these feeds are similar to those disclosed and would therefore be expected to be effectively treated in the process of Kaeding. Regarding the presence of saturated compounds in the feed, it would have been obvious to one having ordinary skill in the art to have utilized feeds that contain

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saturated compounds because the presence of these compounds would not affect the conversion of other compounds.

Response to Arguments

The argument that the Keading reference does not discloses steam heating is not persuasive because examples 8 and 9 disclose the steaming of the composition.

Allowable Subject Matter

Claims 33-36, 39-41, 45-47, and 51-53 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

The prior art of record does not disclose a process as claimed in which the catalyst promoter is the claimed zinc compounds.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

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will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Walter D. Griffin whose telephone number is 703-305-3774. The examiner can normally be reached on Monday-Friday 6:30 to 4:00 with alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenn Caldarola can be reached on 703-308-6824. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9310.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0651.

Walter D. Griffin Primary Examiner Art Unit 1764

WG December 8, 2003